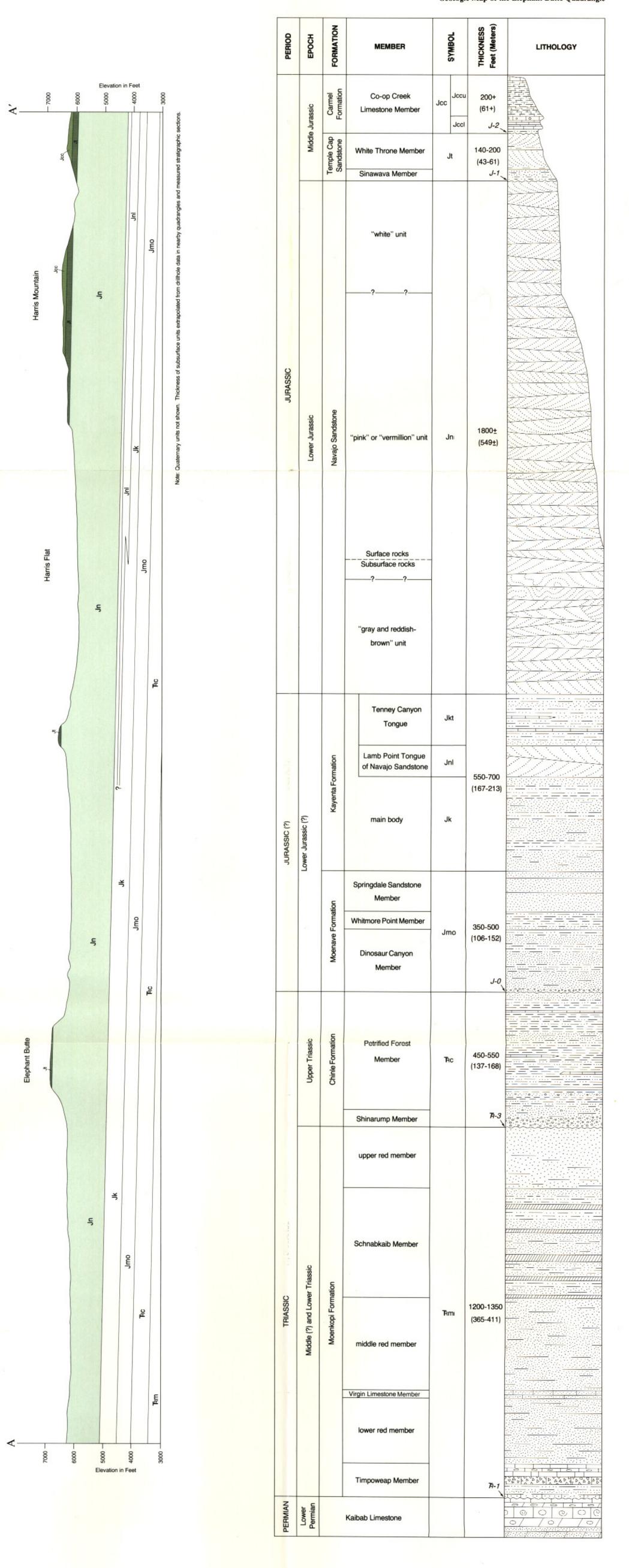


Qas ₁ Qas ₂	- Qac Qaf Qes Qes Qed Qc	Holocene and Pleistocene	Quaternary
nconformity			
Jcc Jccl			
2 unconformity		Middle Jurassic	
Jt			
1 unconformity		. 1	.e.
		T	Jurassic
Jn	Surface Subsurface		
Jkt Jnl Jk		Lower Jurassic	
Jmo			
0 unconformity			
TRC		Upper Triassic	T
			sic
3 unconformity		T	Triassic
Tkm		Middle (?) and Lower Triassic	
	DESCRIPTION OF MAP UNITS		
0:-	Alluvium — Predominantly sand, fine to medium, de		
Qas Qas ₂	Navajo Sandstone, locally contains poorly inter limestone platelets derived from the Co-op Cre Formation, and organic debris; commonly con	eek Limestone Member of th	ne Carmel
Grasz .	0-40 feet thick, thickest in lower parts of valleys. to modern stream channels and as overbank an floodplain deposits adjacent to modern streams and colluvium along valley walls.	Qası, younger alluvium in and d fan deposits. Qas₂, older a	d adjacent Iluvium as
Qac			
	Alluvium and colluvium — Sand of eolian origin rewo low angle, planar to gently curving, and relatively		rfaces are
Qat		ly smooth. orange, pink, and gray; with d	listinct fan
VACCO VACCO	Iow angle, planar to gently curving, and relatively Alluvial fan deposits — Sand, very fine to medium; of morphology; in part appears to overlie alluvial fan	by smooth. Drange, pink, and gray; with deas and aprons mapped in unit deas and aprons mapped in unit deas and and irregular when areas and on mesas are to alluvium. Locally included and composition of the composition of	listinct fan Qas₂and pink, and r fillings of nd buttes; des small e clasts on
Qat	Alluvial fan deposits — Sand, very fine to medium; of morphology; in part appears to overlie alluvial fan eolian sand of unit Qes. Eolian deposits and residuum undivided — Sand yellowish-gray; occurs as veneer of mostly stabilishedrock hollows and intermittent drainages in local includes some small dunes; grades downsloped outcrops of bedrock. Unit includes red-orange of parts of mesas and buttes underlain by the Colonian series of mesas and buttes underlain by the Colonian series of mesas and buttes underlain by the Colonian series of mesas and buttes underlain by the Colonian series of mesas and buttes underlain by the Colonian series of mesas and buttes underlain by the Colonian series of mesas and buttes underlain by the Colonian series of mesas and buttes underlain by the Colonian series of mesas and buttes underlain by the Colonian series of mesas and series of mesas	by smooth. Drange, pink, and gray; with dons and aprons mapped in unit with the sand aprons mapped in unit with the sand and irregular with a reas and on mesas are to alluvium. Locally included by the sand aprons flanking cliffs are and aprons flanking cliffs are	pink, and r fillings of nd buttes; des small clasts on ber of the
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Qat	Alluvial fan deposits — Sand, very fine to medium; of morphology; in part appears to overlie alluvial fan eolian sand of unit Qes. Eolian deposits and residuum undivided — Sand yellowish-gray; occurs as veneer of mostly stabilishedrock hollows and intermittent drainages in local includes some small dunes; grades downsloped outcrops of bedrock. Unit includes red-orange of parts of mesas and buttes underlain by the Concarmel Formation. Unit may be as much as 30 southeastern part of quadrangle and as ramps slopes of buttes and mesas and grading downslopes.	orange, pink, and gray; with dons and aprons mapped in unit dons and aprons mapped in unit dons and aprons mapped in unit dons and areas and on mesas are to alluvium. Locally included a composition of the composition of th	pink, and rillings of nd buttes; des small clasts on ber of the e fields in and steep uch as 50
Qat Qes	Alluvial fan deposits — Sand, very fine to medium; of morphology; in part appears to overlie alluvial far eolian sand of unit Qes. Eolian deposits and residuum undivided — Sand yellowish-gray; occurs as veneer of mostly stabilishedrock hollows and intermittent drainages in local includes some small dunes; grades downslope outcrops of bedrock. Unit includes red-orange of parts of mesas and buttes underlain by the Concarmel Formation. Unit may be as much as 30 southeastern part of quadrangle and as ramps slopes of buttes and mesas and grading downsloped feet thick.	orange, pink, and gray; with does and aprons mapped in unit which are as and and irregular whand areas and on mesas are to alluvium. Locally included by the competition of the competit	pink, and rillings of nd buttes; des small clasts on ber of the efields in and steep uch as 50 and buttes.
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Qes Qed Jecu Jecu Jecl Jt	Alluvial fan deposits — Sand, very fine to medium; a morphology; in pan appears to overlie alluvial far eolian sand of unit Qes. Eolian deposits and residuum undivided — Sandyellowish-gray; occurs as veneer of mostly stabilis bedrock hollows and intermittent drainages in low includes some small dunes; grades downslope outcrops of bedrock. Unit includes red-orange parts of mesas and buttes underlain by the Concarmel Formation. Unit may be as much as 30 southeastern part of quadrangle and as ramps solopes of buttes and mesas and grading downsle feet thick. Colluvium — Sand and sandstone talus blocks at basilierous with pelecypods, gastropods, and crastericus. Lower unit (Joct) with basal ledgeforming shale and limestone; upper unit (Jocushown on cross section only. Maximum incomples from tight-angle crossbeds, and the underlying brown, slope-forming sillstone and sandstone. To 200 feet. Navajo Sandstone — Sandstone, quartzose, mosubangular to subrounded equant grains with cement; massive, with sweeping high-angle crossbeds. Navajo Sandstone — Sandstone, quartzose, mosubangular to subrounded equant grains with cement; massive, with sweeping high-angle crossbeds, shoping rock faces and to rounded hills, ledges, sloping rock faces and to rounded hills, ledges, sloping rock faces and	orange, pink, and gray; with does and aprons mapped in unit does and aprons mapped in unit does and aprons mapped in unit will see to alluvium. Locally included a locally residuum with limestone does and aprons flanking cliffs a cope to unit Qes. May be as must be a locally residuum with limestone of the and aprons flanking cliffs a local aprons flanking limestone overlain in local aprons flanking limestone overlain for the local aprons flanking cliffs and local aprons flanking limestone overlain in calcareous, alliceous, or in local aprons flanking cliffs and local aprons flanking cliffs and local aprons flanking limestone overlain in calcareous, siliceous, or in local aprons flanking cliffs and local aprons	pink, and rillings of nd buttes; des small clasts on ber of the e fields in and steep uch as 50 and buttes. and shale; crystalline ds; locally nitacrinus by slope-unit Jcc at 200 feet. members y, fine- to andstone o reddishs from 140 dt; frosted ron-oxide ick; upper weathers
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— — JOINT IN NAVAJO SANDSTONE

trace.

---- LINEAR FEATURE OBSERVED ON AERIAL PHOTOGRAPHS - may be fault or joint

surface is below datum; contour interval 100 feet.